Reply to Office Action of May 11, 2007

## **Listing of Claims**

1. (Currently Amended) A data transfer controlling method in a radio system which

transmits and receives data in an acknowledgement mode, the method comprising the steps of:

transmitting window size control information from a receiver to a transmitter

based on by a state of a receiving buffer; and

varying a transmitting window size of by the transmitter according to the

transmitted window size control information, wherein acknowledgment information is

transmitted simultaneously with the window size control information, the acknowledgment

information controlling transmission of additional data from the transmitter to the receiver

based on the varied transmitting window size.

2. (Original) The method of claim 1, wherein the transmitter is a network and the

receiver is a terminal.

3. (Original) The method of claim 1, wherein the window size control information is

contained in status information thus to be transmitted.

4. (Original) The method of claim 1, wherein the window size control information is

a window size super-field (SUFI).

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- 5. (Original) The method of claim 3, wherein the status information further includes an ACK SUFI.
- 6. (Original) The method of claim 1, wherein the receiver adjusts a receiving window size to be the same as the transmitting window size.
- 7. (Original) The method of claim 1, wherein the window size control information includes window size downward setting information if a receiving buffer is in an overflow state.
  - 8. (Original) The method of claim 7, wherein the downward set window size is 1.
- 9. (Original) The method of claim 1, wherein the window size control information includes window size upward setting information if a receiving buffer is not in an overflow state.
- 10. (Original) The method of claim 9, wherein the upward setting level is up to an upper limit.
- 11. (Currently Amended) A data transfer controlling method in a radio system which controls a flow of a radio link and includes an entity operated in an acknowledgement mode,

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wherein window size update information is transmitted from a receiving entity to a transmitting entity based on a processing speed of <u>data stored in</u> a receiving buffer

wherein acknowledgment information is transmitted simultaneously with the window size update information, the acknowledgment information controlling transmission of additional data from the transmitting entity to the receiving entity based on the window size update information. [[;]]

- 12. (Currently Amended) The method of claim 11, wherein the entity is a radio link control (RLC) entity.
- 13. (Original) The method of claim 11, wherein the receiving entity adjusts a receiving window size to be the same as a transmitting window size.
- 14. (Original) The method of claim 11, wherein the window size update information is transmitted through status information.
- 15. (Currently Amended) The method of claim 11, wherein the window size update information is <u>included in</u> a window size super-field (SUFI).

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16. (Original) The method of claim 14, wherein the status information includes an ACK SUFI.

- 17. (Original) The method of claim 11, wherein the receiving entity determines a change of a window size according to a state of a receiving buffer.
- 18. (Original) The method of claim 17, wherein the receiving entity adjusts a window size to be downward set in case that data more than a certain level remain on the receiving buffer.
  - 19. (Original) The method of claim 18, wherein the downward set window size is 1.
- 20. (Original) The method of claim 17, wherein the receiving entity adjusts a window size to be upward set in case that data more than a certain level do not remain on the receiving buffer.
- 21. (Original) The method of claim 20, wherein the upward setting level is up to an upper limit.

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22. (Currently Amended) A data transfer controlling method in a radio data transfer of a mobile communication system, the method comprising the steps of:

receiving a protocol data unit (PDU) from a transmitting <u>radio link control (RLC)</u> entity;

checking a state of a stored receiving buffer for storing the by a receiving PDU; transmitting window size control information to the transmitting RLC according to the [[a]] state of the [[a]] receiving buffer to the transmitting RLC; [[and]] the window size control information to vary varying a transmitting window size of the transmitting RLC entity according to the window size control information; by the transmitting RLC and thus for transmitting additional PDUs to be stored in the receiving buffer, wherein acknowledgment information is transmitted simultaneously with the window size control information, the acknowledgment information controlling transmission of said additional PDUs based on the varied transmitting window size.

- 23. (Currently Amended) The method of claim 22, wherein a the receiving RLC entity adjusts a receiving window size to be the same as the transmitting window size.
- 24. (Original) The method of claim 22, wherein the window size control information includes window size downward setting information if the receiving buffer is in an overflow tate.

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- 25. (Original) The method of claim 24, wherein the downward set window size is 1.
- 26. (Original) The method of claim 22, wherein the window size control information is a window size SUFI.
- 27. (Original) The method of claim 22, wherein the window size control information is transmitted through status information.
  - 28. (Original) The method of claim 27, wherein the status information is an ACK signal.
  - 29. (Original) The method of claim 28, wherein the ACK signal includes an ACK SUFI.
- 30. (Original) The method of claim 22, wherein the window size control information includes window size upward setting information if the receiving buffer is not in an overflow state.
- 31. (Original) The method of claim 30, wherein the upward setting level is up to an upper limit.

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- 32. (New) The method of claim 1, wherein the acknowledgement information is included in a first super-field and the window size control information is included in a second super-field, the first and second super-fields transmitted simultaneously within a status protocol data unit (PDU) from the receiver to the transmitter.
- 33. (New) The method of claim 1, wherein the transmitting window is varied to a size which allows previously received data stored in the receiving buffer to be arranged in sequence without said additional data from the transmitted being lost in the receiving buffer.
- 34. (New) The method of claim 1, further comprising:

  adjusting a window size of the receiving buffer based on the window size control information.
- 35. (New) The method of claim 34, wherein the varied window size of the receiving buffer is adjusted to be equal the transmitting window size varied based on the window size control information.